

EPCA DIRECTIVES REGARDING FLUORESCENT LAMP BALLASTS

This document lists the relevant statutory requirements under 42 U.S.C. 6295(g) (*i.e.*, section 325(g) of EPCA, as amended by the Energy Policy Act of 2005) that apply to fluorescent lamp ballasts.

42 U.S.C. 6295(g). Standards for dishwashers; clothes washers; clothes dryers; fluorescent lamp ballasts

(5) *Except as provided in paragraph (6), each fluorescent lamp ballast--*

(A) (i) manufactured on or after January 1, 1990;

(ii) sold by the manufacturer on or after April 1, 1990; or

(iii) incorporated into a luminaire by a luminaire manufacturer on or after April 1, 1991; and

(B) designed--

(i) to operate at nominal input voltages of 120 or 277 volts;

(ii) to operate with an input current frequency of 60 Hertz; and

(iii) for use in connection with an F40T12, F96T12, or F96T12HO lamps;

(C) shall have a power factor of 0.90 or greater and shall have a ballast efficacy factor not less than the following:

Application for Operation of	Ballast Input Voltage	Total Nominal Lamp Watts	Ballast Efficacy Factor
One F40T12 lamp	120	40	1.805
	277	40	1.805
Two F40T12 lamps	120	80	1.060
	277	80	1.050
Two F96T12 lamps	120	150	0.570
	277	150	0.570
Two F96T12HO lamps	120	220	0.390
	277	220	0.390

(6) *The standards described in paragraph (5) do not apply to*

(A) a ballast which is designed for dimming or for use in ambient temperatures of 0° F or less, or

(B) a ballast which has a power factor of less than 0.90 and is designed and labeled for use only in residential building applications.

(7) (A) *The Secretary shall publish a final rule no later than January 1, 1992, to determine if the standards established under paragraph (5) should be amended, including whether such standards should be amended so that they would be applicable to ballasts described in paragraph (6) and other fluorescent lamp*

ballasts. Such rule shall contain such amendment, if any, and provide that the amendment shall apply to products manufactured on or after January 1, 1995.

(B) After January 1, 1992, the Secretary shall publish a final rule no later than five years after the date of publication of a previous final rule. The Secretary shall determine in such rule whether to amend the standards in effect for fluorescent lamp ballasts, including whether such standards should be amended so that they would be applicable to additional fluorescent lamp ballasts.

(C) Any amendment prescribed under subparagraph (B) shall apply to products manufactured after a date which is five years after--
(i) the effective date of the previous amendment; or
(ii) if the previous final rule did not amend the standards, the earliest date by which a previous amendment could have been effective;
except that in no case may any amended standard apply to products manufactured within three years after publication of the final rule establishing such amended standard.

(8)(A) Each fluorescent lamp ballast (other than replacement ballasts or ballasts described in subparagraph (C))—

- (i) (I) manufactured on or after July 1, 2009;*
(II) sold by the manufacturer on or after October 1, 2009; or
(III) incorporated into a luminaire by a luminaire manufacturer on or after July 1, 2010; and
- (ii) designed—*

(I) to operate at nominal input voltages of 120 or 277 volts;
(II) to operate with an input current frequency of 60 Hertz; and
(III) for use in connection with F34T12 lamps, F96T12/ES lamps, or F96T12HO/ES lamps; shall have a power factor of 0.90 or greater and shall have a ballast efficacy factor of not less than the following:

Application for Operation of	Ballast Input Voltage	Total Nominal Lamp Watts	Ballast Efficacy Factor
One F34T12 lamp	120	34	2.61
	277	34	2.61
Two F34T12 lamps	120	68	1.35
	277	68	1.35
Two F96T12/ES lamps	120	120	0.77
	277	120	0.77
Two F96T12HO/ES	120	190	0.42
	277	190	0.42

(B) The standards described in subparagraph (A) shall apply to all ballasts covered by subparagraph (A)(ii) that are manufactured on or after July 1, 2010, or sold by the manufacturer on or after October 1, 2010.

(C) The standards described in subparagraph (A) do not apply to—

- (i) a ballast that is designed for dimming to 50 percent or less of the maximum output of the ballast;*
- (ii) a ballast that is designed for use with 2 F96T12HO lamps at ambient temperatures of 20°F or less and for use in an outdoor sign; or*
- (iii) a ballast that has a power factor of less than 0.90 and is designed and labeled for use only in residential applications.;*